## IN THE CLAIMS

The status of the claims is provided below:

Claims 1-51: (Canceled).

- 52. (New) An antitumor composition comprising an immunostimulatory oligonucleotide comprising a nonmethylated octameric CG motif of the sequence AACGTTAT.
- 53. (New) The composition of Claim 52, wherein the immunostimulatory oligonucleotide is single-stranded or double-stranded.
- 54. (New) The composition of Claim 52, wherein the immunostimulatory oligonucleotide is stabilized.
- 55. (New) The composition of Claim 54, wherein the immunostimulatory oligonucleotide is stabilized by a modified backbone selected from the group consisting of a phosphorothioate, a phosphorodithioate, a phosphorothioate mixture, a methylphosphonate, and a stabilization at a 3' or 5' end.
- 56. (New) The composition of Claim 52, wherein the immunostimulatory oligonucleotide is combined with an encapsulating agent, colloidal dispersion system, or a polymer.

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- 57. (New) The composition of Claim 52, wherein at least one cytosine of the nonmethylated octameric CG motif(s) of the sequence AACGTTAT is replaced with 5-bromocytosine.
- 58. (New) The composition of Claim 52, wherein the immunostimulatory oligonucleotide is between 20 and 100 nucleotides in length.
- 59. (New) A method of treating cancer, comprising administering an effective amount of the composition of Claim 52 to a human.
- 60. (New) The method of Claim 59, wherein the cancer is a cancer of the nervous system.
- 61. (New) The method of Claim 59, wherein the cancer is astrocytoma, glioblastoma, medulloblastoma, neuroblastoma, melanoma or carcinoma.
  - 62. (New) The method of Claim 59, wherein the human has a tumor.
- 63. (New) An oligonucleotide comprising a nonmethylated octameric CG motif of the sequence AACGTTAT.
- 64. (New) The oligonucleotide of Claim 63, which is between 20 and 100 nucleotides in length.

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- 65. (New) The oligonucleotide of Claim 64, which is selected from the group consisting of the sequences of SEQ ID NO: 9, 10, 16, 21, 31, 33, 34, 35 and 37.
- 66. (New) The oligonucleotide of Claim 63, which is stabilized by a modified backbone selected from the group consisting of a phosphorothioate, a phosphorodithioate, a phosphorothioate mixture, a methylphosphonate, and a stabilization at a 3' or 5' end.